OLODUM ROUND RECESSED

E1010019-

base number

Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Olodum	
Subseries: Olodum Round	
Brand: Side	
Division: Exterior	
Mounting Type: Recessed	
Mounting Location: In-Ground	
Subcategory: Uplight	

PHYSICAL	
Shape: Round	
Diameter (mm): 76	
Diameter (in): 3	
Height (mm): 62	
Height (in): $2\frac{7}{16}$	
Light Distribution: Uplight	
Weight (kg): 0.3	
Weight (lbs): 0.66	
Diffuser: Clear tempered glass	
Gasket: Silicon rubber	
Fixture Finish: SSS	
Fixture Material: Stainless Steel	

ELECTRICAL

Lamp Type: LED (Zhaga Standard) Total Output Wattage (W): 3.5 Dimming: Non-Dimming / Phase Dimming (120Vac only) / 0-10V Dimming Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 350

Color Temperature (°K): 3000 / 4000 Max. Delivered Lumen (lm): 285 / 300 CRI: >80 CRI Lamp Life (hrs): 50000

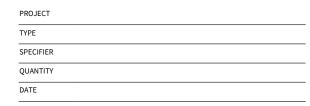
OPTICAL

Reflector°: Polycarbonate Metallized Reflector Optic°: 45

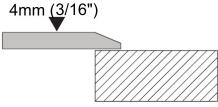
Upon Request: Dimming requires 2 fixture minimum

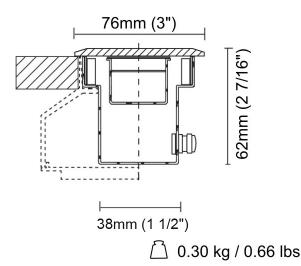
RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards IP rating: IP67 IK Rating: IK07







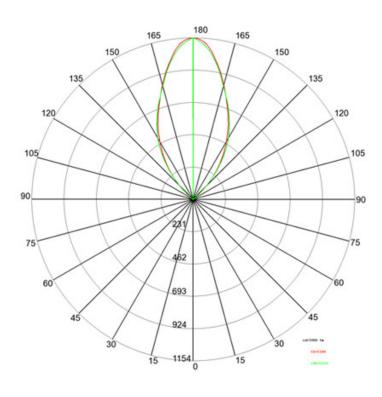


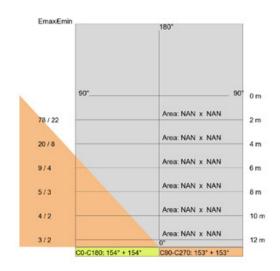


OLODUM ROUND RECESSED

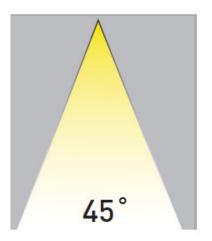
E10I0019-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	











OLODUM RECESSED

E1010047-

base number

Color	BA Options
Temperature	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

CLITERAL	
Series: Olodum	
Brand: Side	
Division: Exterior	
Mounting Type: Recessed	
Mounting Location: In-Ground	
Subcategory: Drive Over	

PHYSICAL

Shape: Round Diameter (mm): 220 Diameter (in): 8 11/16

Height (mm): 242

Height (in): 9 1/2

Light Distribution: Adjustable / Direct

Weight (kg): 3.8 Weight (lbs): 8.38

Diffuser: Clear tempered glass

Fixture Finish: SSS

Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED (Zhaga Standard) Input Wattage (W): 20 Total Output Wattage (W): 17 Dimming: Non-Dimming / Phase Dimming (120vac Only) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277

Constant Current (MA): 500

Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) Remote: 0-10Vdc dimming / (Included) Integral: Phase dimming @120Vac only / 277Vac

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 2434.9 / 2607.5 Nominal Lumen (lm): 2750 / 2945

CRI: >80 CRI

Lamp Life (hrs): 50000

OPTICAL

Reflector°: Metallised polycarbonate reflector - Pivoting 350° and adjustable +/- 15° reflector

Opticº: 15 / 45 / 65 / ASY

RATINGS AND CERTIFICATIONS

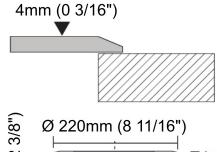
Certified By: Certified for North American Standards

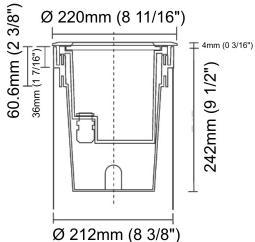
IP rating: IP67

IK Rating: IK10

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		







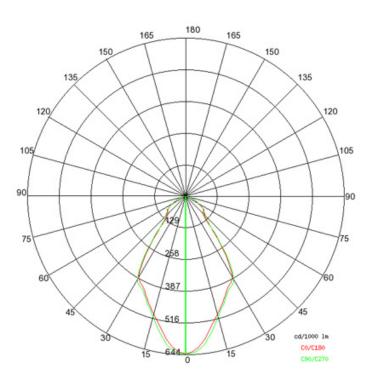
3.80 kg / 8.38 lbs



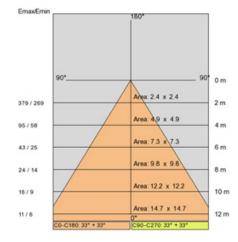


E10I0047-

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		









OLODUM RECESSED

E1010059-

base number

Color	BA Options
T	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

	
Series: Olodum	
Brand: Side	
Division: Exterior	
Mounting Type: Recessed	
Mounting Location: In-Ground	
Subcategory: Unlight	

Subcutegory: Optigne
PHYSICAL
Shape: Round
Diameter (mm): 220
Diameter (in): 8 11/16
Height (mm): 242
Height (in): 9 ½
Light Distribution: Adjustable / Direct
Weight (kg): 3.8
Weight (lbs): 8.38

Weight (lbs): 8.38

Diffuser: Clear tempered glass

Gasket: Silicon rubber

Fixture Finish: SSS

Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 20

Total Output Wattage (W): 17

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only)

and 0-10V Dimming)

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) Remote: 0-10Vdc dimming / (Included) Integral: Phase dimming @120Vac only / 277Vac

LED

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 2434.9 / 2607.5

Nominal Lumen (lm): 2750 / 2945

CRI: >80 CRI

Lamp Life (hrs): 50000

OPTICAL

Reflector°: Polycarbonate metallized reflector

Optic°: 15 / 45 / 65 / ASY

RATINGS AND CERTIFICATIONS

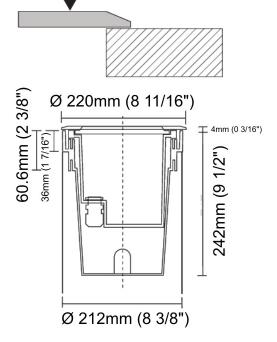
Certified By: Certified for North American Standards

IP rating: IP67

IK Rating: IK10

PROJECT	
ТҮРЕ	
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QUANTITY	
DATE	





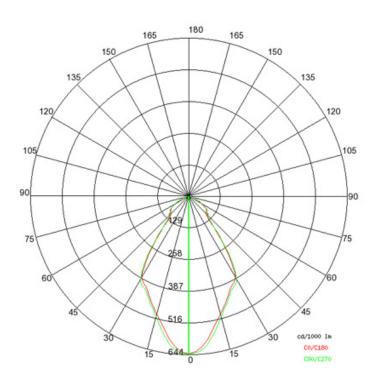
3.80 kg / 8.38 lbs



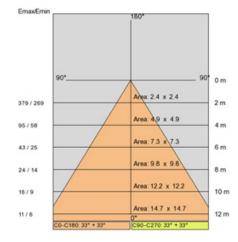


E10I0059-

PROJECT
ТҮРЕ
SPECIFIER
QUANTITY
DATE









OLODUM ROUND RECESSED

-
BA Options rature

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Olodum	
Subseries: Olodum Round	
Brand: Side	
Division: Exterior	
Mounting Type: Recessed	
Mounting Location: In-Ground	
Subcatogony Unlight	

mounting Eocution: In Ground	
Subcategory: Uplight	
PHYSICAL	
Shape: Round	
Diameter (mm): 130	
Diameter (in): 5 ½	
Height (mm): 146	
Height (in): 5 ³ / ₄	
Light Distribution: Adjustable / Direct	
Weight (kg): 1.9	
Weight (lbs): 4.19	
Diffuser: Clear tempered glass	

Gasket: Silicon rubber Fixture Finish: SSS

Fixture Material: Aluminum Die Cast

ELECTRICAL Lamp Type: LED (Zhaga Standard) Input Wattage (W): 6.8 Total Output Wattage (W): 5.8 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only) Driver Included: No Driver Location: Remote Driver Type: Constant Current - Universal Input Voltage (V): 120 - 277 Constant Current (MA): 203 Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) 0-10Vdc dimming / Phase dimming @120Vac only / 277Vac

Color Temperature (°K): 3000 / 4000 Max. Delivered Lumen (lm): 814.5 / 868.8 Nominal Lumen (lm): 1050 / 1120 CRI: >80 CRI Lamp Life (hrs): 50000

OPTICAL

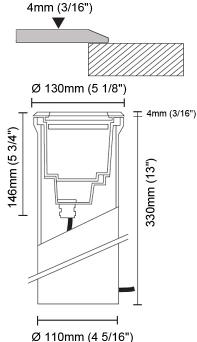
Reflector°: Metallized polycarbonate Optic°: 15 / 30 / 45 Adjustability: Rotational 350°; Tilt ±15°

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards IP rating: IP67 IK Rating: IK10

PROJECT	
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SPECIFIER	
QUANTITY	
DATE	





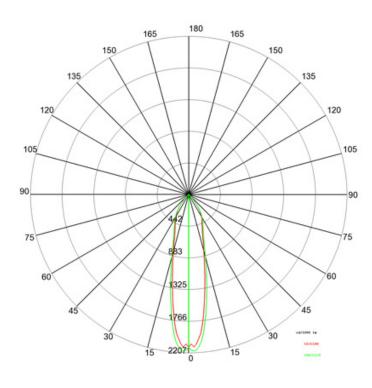
1.9kg / 4.19lbs

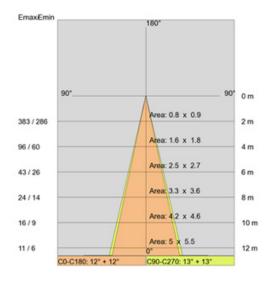




E10I0071-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	









OLODUM ROUND RECESSED

E10I0093-

base number

Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Olodum Subseries: Olodum Round Brand: Side Division: Exterior Mounting Type: Recessed Mounting Location: In-Ground

Subcategory: Walk Over **PHYSICAL** Shape: Round Diameter (mm): 65 Diameter (in): 2 % Height (mm): 62 Height (in): 2 1/16 Light Distribution: Uplight Weight (kg): 0.3 Weight (lbs): 0.66 Load Resistance (kg): 500 Load Resistance (lbs): 1102 Diffuser: Clear tempered glass Gasket: Silicon rubber Fixture Finish: SSS Fixture Material: Stainless Steel **ELECTRICAL**

Lamp Type: LED (Zhaga Standard) Input Wattage (W): 3.5 Total Output Wattage (W): 3 Driver Included: No Input Voltage (V): 120 Constant Current (MA): 350

LED

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 285 / 300

CRI: >80 CRI

OPTICAL

Number of LEDs: 1

Reflector°: Polycarbonate metallized reflector

Optic°: 45

RATINGS AND CERTIFICATIONS

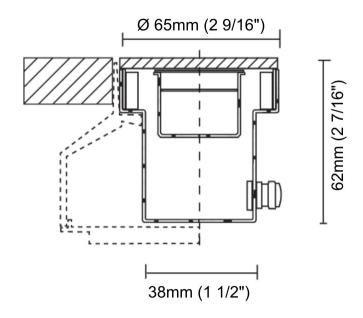
Certified By: Certified for North American Standards

IP rating: IP67

IK Rating: IK07







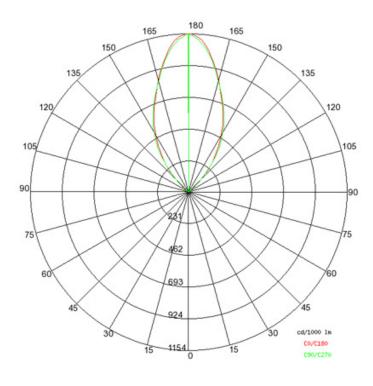
△ 0.3kg / 0.66lbs

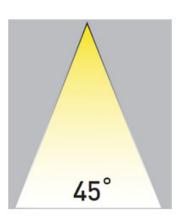


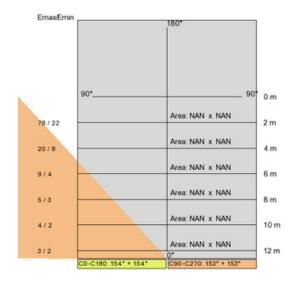


E10I0093-

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
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OLODUM ROUND RECESSED

E10Q0034-

base number

Color Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Olodum	
Subseries: Olodum Round	
Brand: Side	
Division: Exterior	
Mounting Type: Recessed	
Mounting Location: Ceiling	
Subcategory: Downlight	

DIVISION, Exterior
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Downlight
PHYSICAL
Shape: Round
Diameter (mm): 76
Diameter (in): 3
Height (mm): 58
Height (in): 2 ⁵ / ₁₆
Min. Recessing Depth (mm): 63
Min. Recessing Depth (in): 2 ½
Light Distribution: Direct
Weight (kg): 0.4
Weight (lbs): 0.88
Diffuser: Clear tempered glass
Gasket: Silicon rubber
Fixture Finish: SSS
Fixture Material: Stainless Steel
ELECTRICAL

ELECTRICAL
Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 4.4
Total Output Wattage (W): 3.1
Dimming: Non-Dimming / Phase Dimming (120Vac only) / 0-10V Dimming
Driver Included: No
Driver Location: Remote
Driver Type: Constant Current - 120 / 277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350

LED
Color Temperature (°K): 3000 / 4000
Max. Delivered Lumen (lm): 285 / 300
Nominal Lumen (lm): 350 / 380
CRI: >80 CRI
Lamp Life (hrs): 50000
OPTICAL

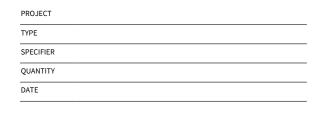
Opticº: 45

RATINGS AND CERTIFICATIONS

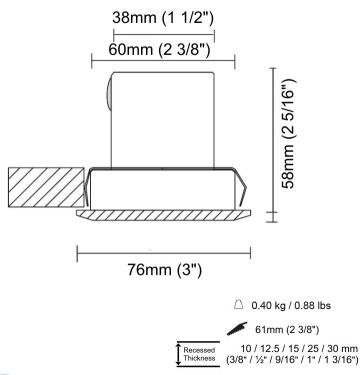
Certified By: Certified for North American Standards

IP rating: IP67

IK Rating: IK07





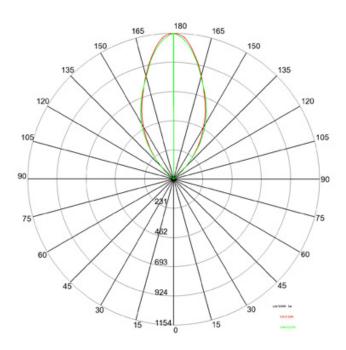




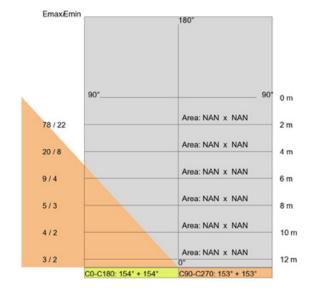


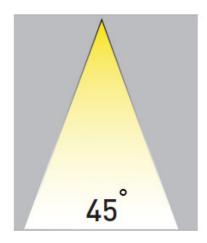
E10Q0034-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	











OLODUM RECESSED

E10Q0040-

base number

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Olodum Brand: Side Division: Exterior Mounting Type: Recessed Mounting Location: Ceiling Subcategory: Downlight

PHYSICAL Shape: Round Diameter (mm): 220 Diameter (in): 8 11/16 Height (mm): 215 Height (in): 8 1/16 Light Distribution: Adjustable / Direct Weight (kg): 3.6 Weight (lbs): 7.94 Diffuser: Clear tempered glass

Fixture Finish: SSS

Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 20

Total Output Wattage (W): 17

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Driver Included: Yes Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) 0-10Vdc dimming / (Included) Integral: Phase dimming @120Vac only / 277Vac

LED

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 2434.9 / 2607.5

Nominal Lumen (lm): 2750 / 2945

CRI: >80 CRI

Lamp Life (hrs): 50000

OPTICAL

Reflector°: Polycarbonate metallized reflector

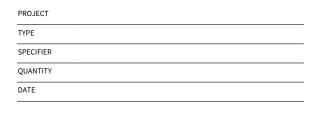
Opticº: 15 / 45 / 65 / ASY

RATINGS AND CERTIFICATIONS

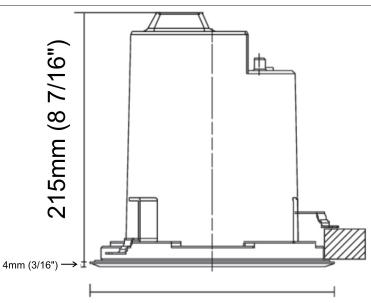
Certified By: Certified for North American Standards

IP rating: IP67

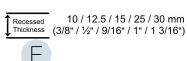
IK Rating: IK10

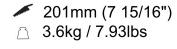






220mm (8 11/16")

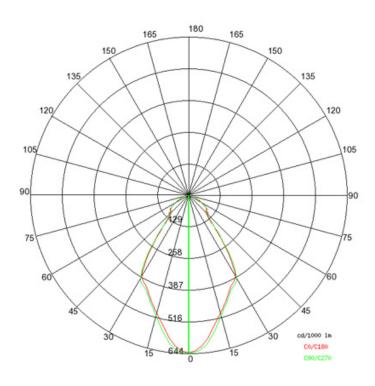




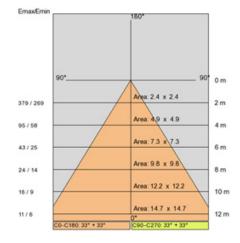


E10Q0040-

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	









OLODUM RECESSED

E10Q0046-

base number

Color BA Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Olodum

Brand: Side

Division: Exterior

Mounting Type: Recessed

Mounting Location: Ceiling

Subcategory: Downlight

Subcategory: Downlight

PHYSICAL

Shape: Round

Diameter (mm): 220

Diameter (in): 8 11/15

Height (mm): 215

Height (in): 8 7/16

Light Distribution: Adjustable / Direct

Weight (kg): 3.6

Weight (lbs): 7.94

Diffuser: Clear tempered glass

Fixture Finish: SSS

Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 20
Total Output Wattage (W): 17
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes

Driver Legation Integr

Driver Location: Integrated

<u>Driver Type: Constant Current - Universal</u> <u>Driver Class: Class 2</u>

Input Voltage (V): 120 - 277 Constant Current (MA): 500

Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) 0-10Vdc dimming / (Included) Integral: Phase dimming @120Vac only / 277Vac

LED

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 2434.9 / 2587.5

Nominal Lumen (lm): 2750 / 2945

CRI: >80 CRI

Lamp Life (hrs): 50000

OPTICAL

Reflector°: Polycarbonate metallized reflector

Beam Angle: Spot - 15° / Flood - 45° / Wide Flood - 65° / Asymmetric

RATINGS AND CERTIFICATIONS

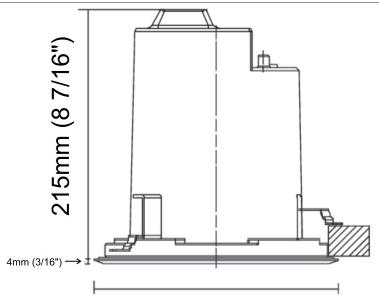
Certified By: Certified for North American Standards

IP rating: IP67

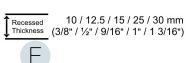
IK Rating: IK10







220mm (8 11/16")



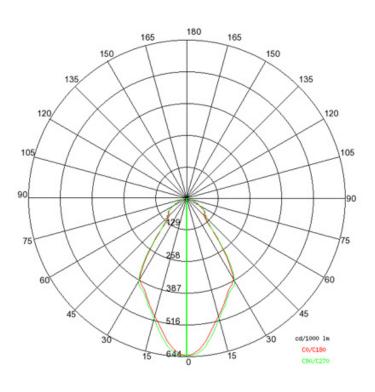
mm 16") 201mm (7 15/16") 3.6kg / 7.93lbs

Page 15/22

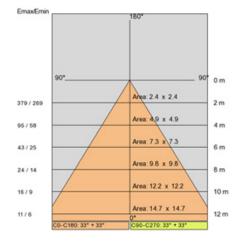


E10Q0046-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	











E10Q0052-

base number

BA Options Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Olodum	
Subseries: Olodum Round	
Brand: Side	
Division: Exterior	
Mounting Type: Recessed	
Mounting Location: Ceiling	
Subcategory: Downlight	

Mounting Location: Ceiling
Subcategory: Downlight
PHYSICAL
Shape: Round
Diameter (mm): 130
Diameter (in): 5 1/8
Height (mm): 132
Height (in): $5\frac{3}{16}$
Light Distribution: Downlight
Weight (kg): 1.450
Weight (lbs): 3.2
Diffuser: Clear tempered glass
Gasket: Silicon rubber
Fixture Finish: SSS
Fixture Material: Aluminum Die Cast
ELECTRICAL
Lamp Type: LED (7haga Standard)

ELECTRICAL
Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 6.8
Total Output Wattage (W): 5.8
Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)
Driver Included: No
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 203
Upon Request: (Not included - see components [IP65 or higher

enclosure to be supplied by others]) 0-10Vdc dimming / Phase dimming @120Vac only / 277Vac

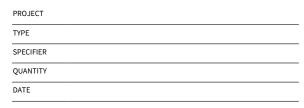
Color Temperature (°K): 3000 / 4000 Max. Delivered Lumen (lm): 814.5 / 868.5 CRI: >80 CRI Lamp Life (hrs): 50000

OPTICAL

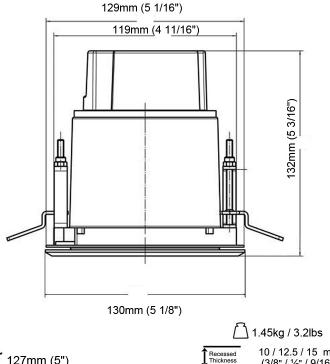
Reflector°: Polycarbonate metallized reflector Optic°: 15 / 30 / 45

RATINGS AND CERTIFICATIONS

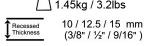
Certified By: Certified for North American Standards IP rating: IP67 IK Rating: IK10









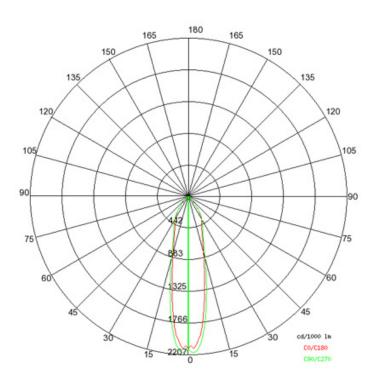


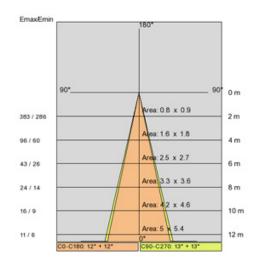
Page 17/22

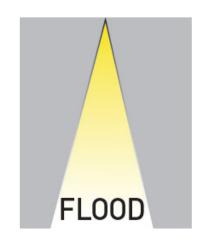


E10Q0052-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	









OLODUM RECESSED

E10Q0058-

base number

Color	Lens
Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Olodum
Brand: Side
Division: Exterior
Mounting Type: Recessed
Mounting Location: Ceiling

Mounting Type: Recessed
Mounting Location: Ceiling
PHYSICAL
Shape: Round
Diameter (mm): 180
Diameter (in): 7 ½
Height (mm): 250
Height (in): 9 13/16
Light Distribution: Direct
Weight (kg): 3.4
Weight (lbs): 7.5
Diffuser: Clear Tempered Glass
Fixture Finish: SSS
Fixture Material: Aluminum Die Cast
FLECTRICAL

ELECTRICAL

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 9.1

LED

Number of LEDs: 1 Color Temperature (°K): 3000 / 4000 Max. Delivered Lumen (lm): 1157 / 1239 Nominal Lumen (lm): 1410 / 1510 CRI: >90 CRI

OPTICAL

Reflector°: Polycarbonate metallized reflector

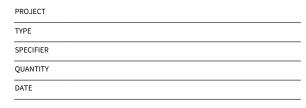
Optic°: 15° / 30° / 45°

RATINGS AND CERTIFICATIONS

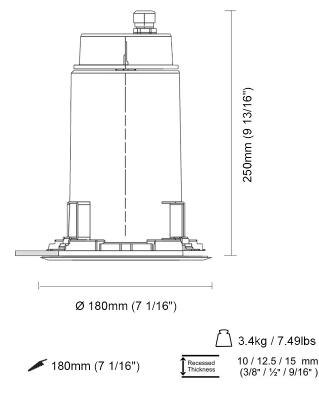
Certified By: CSA Certified to UL and CSA Standards

IP rating: IP67

IK Rating: IK10



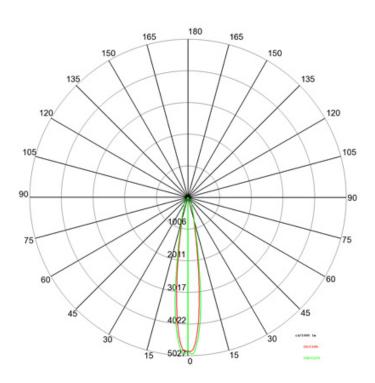


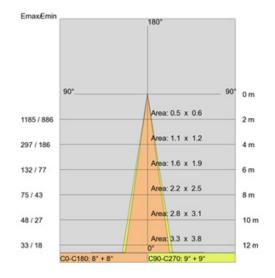




E10Q0058-

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	











OLODUM

COLOR FINISH CHART

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		

Fixture Finish



Digital: Not all screens are calibrated the same, and therefore, colors will appear differently between screens. **Physical:** When texture is involved, there will be variations in color, character and tone within a product series and between product families.





OLODUM

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

LEGEND

T T	Var tr		a × n		special LED (upon request) PGP_PGPW_tunable
<u></u>	floor-mounted	Á	pivotable	⊛	special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
7	wall and ceiling: recessed and surface mounted	S	rotating	0	warm dim / natural dimming LED
\uparrow	ceiling-mounted and wall-mounted	Œ	illuminate tilted	0	rechargeable battery powered
\rightarrow	wall-mounted	T	color of suspension cable	THESE	fixture with natural vivid LED (upon request)
Y	omni-directional light distribution	← …	length of suspension cable	CRI	color rendering index
	direct light distribution		reflector degree selection	(K)	color temperature
	direct/indirect light distribution	s s	super spot	LM	lumen (luminous flux)
Y	indirect light distribution	*	lens	₩)	efficacy (lumens per watt)
	asymmetric light distribution	8	lens pack	UGR	Unified Glare Rating (UGR) range from 5-40
	aura light distribution	0	shine ring	*	marine grade (AISI 316 stainless steel)
R	round wall or ceiling cut-out	0	integrated shine ring with diffuser	3	walk on
Z)	square wall or ceiling cut-out		free individual colors 01-29	②	drive on
4	the supplied jig specifies the cutout dimensions	Ċ	individual colors: 00 (free of charge), 01-25 (extra charge)	DSC	Dark Sky Compliance
□ +,+	minimum distance (meters) lamp - object	•	luminaire part to be colored (F1)	Ġ	Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
$\hat{\perp}$	recessed depth		luminaire part to be colored (F2)		lamp protected against explosion
1	ceiling thickness in mm		luminaire part to be colored (F3)		blown glass using traditional methods by master glass blower
1	ceiling thickness selection		luminaire part to be colored (F4)	(⊕)	acoustic material
	dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim)	•	luminaire part to be colored (F5)		protection class I, protection insulation
<u>جه</u>	included or excluded LED driver/transformer/ control gear	•	color of 3-circuit adaptor		protection class II, protection insulation
8	separately switchable	\odot	indirect diffuser	. (II)	ETL Certified to UL and CSA Standards
9	sensor	O	direct diffuser	ւ Մ) ու	UL Certified to UL and CSA Standards
	remote control	1	ball-proof (upon request)	(1)	CSA Certified to UL and CSA Standards
9	available upon request	O	accessory	Z	Certified for North American Standards

IP RATING

IP20	protected against ingress of solid bodies greater than 12.5mm (finger)
IP33	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
IP40	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
IP43	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
IP44	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
IP54	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
IP65	protected against ingress of dust protected against jets of water
IP66	protected against ingress of dust protected against powerful jets of water or heavy seas
IP67	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
IP68	protected against ingress of dust protected against immersion of water under pressure for long periods

IK RATING

above the surface)

IK03	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
IK04	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
IK05	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
IK06	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
IK07	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
IKOB	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
IK09	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
IK10	protected against 20 joules impact (equivalent to $5.0 kg$ mass dropped from $400 mm$ above the surface)

protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm

protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface) $\,$